

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

EPA 680-03

First Inventor

Charles L. Gray, Jr.

Title

Methods for Low Emission, Controlled
Temperature Combustion in Engines which
utilize late
Direct Opti
Cylinder
Injection
of Fuel

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ **Fee Transmittal Form** (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ **Applicant claims small entity status.**
See 37 CFR 1.27.
3. ☒ **Specification** [Total Pages 25]
Both the claims and abstract must start on a new page
(For information on the preferred arrangement, see MPEP 608.01(a))
4. ☒ **Drawing(s)** (35 U.S.C. 113) [Total Sheets 3]
5. **Oath or Declaration** [Total Sheets 2]
 - a. ☒ Newly executed (original or copy)
 - b. ☐ A copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
name in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
6. ☐ **Application Data Sheet.** See 37 CFR 1.76
7. ☐ **CD-ROM or CD-R** in duplicate, large table or
Computer Program (Appendix)
☐ Landscape Table on CD
8. **Nucleotide and/or Amino Acid Sequence Submission**
(if applicable, items a. - c. are required)
 - a. ☐ Computer Readable Form (CRF)
 - b. **Specification Sequence Listing on:**
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ Paper
 - c. ☐ Statements verifying identity of above copies

ADDRESS TO:

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

ACCOMPANYING APPLICATION PARTS

9. ☐ **Assignment Papers** (cover sheet & document(s))
Name of Assignee _____
10. ☐ **37 CFR 3.73(b) Statement** (when there is an assignee) ☒ **Power of Attorney**
11. ☐ **English Translation Document** (if applicable)
12. ☐ **Information Disclosure Statement** (PTO/SB/08 or PTO-1449)
☐ Copies of citations attached
13. ☐ **Preliminary Amendment**
14. ☐ **Return Receipt Postcard** (MPEP 503)
(Should be specifically itemized)
15. ☐ **Certified Copy of Priority Document(s)**
(if foreign priority is claimed)
16. ☐ **Nonpublication Request** under 35 U.S.C. 122(b)(2)(B)(i).
Applicant must attach form PTO/SB/35 or equivalent.
17. ☐ **Other:** _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation

☐ Divisional

☒ Continuation-in-part (CIP)

of prior application No. 10/214,229

Prior application information:

Examiner

Trien, Thai-Ba

Art Unit: 3748

19. CORRESPONDENCE ADDRESS

☐ The address associated with Customer Number:

OR ☐ Correspondence address below

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Sept. 18, 2003

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David H. Read

Registration No.
(Attorney/Agent)

47,888

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor : Charles L. Gray, Jr
Application Number : 10/665,634
Filing Date : September 19, 2003
Invention Title : Methods for low emission, controlled temperature
combustion in engines which utilize late direct cylinder
injection of fuel

Examiner Name : Trieu, Thai-Ba
Art Unit : 3748
Attorney Docket : EPA 680-03

RESPONSE TO OFFICE ACTION

In response to the office action mailed June 16, 2005, applicant makes the following formal changes requested by the examiner:

1. As requested, applicant resubmits the Utility Patent Application Transmittal, correcting the typo error in the serial number of the prior application in Box 18. The corrected Utility Patent Application Transmittal is appended hereto at page 3.
2. As requested, an Information Disclosure Statement is being submitted herewith.
3. As requested, applicant amends the ABSTRACT section, as follows: Please delete and replace the ABSTRACT section on the last page of the specification, with the replacement section attached hereto. A clean copy of the replacement ABSTRACT section is appended hereto as page 4 of this response. The changes made from the original section are shown in the edited format for the section at page 5 of this response.
4. Applicant agrees with and authorizes the changes to the specification and to claim 8 as stated by the examiner in the examiner's amendment at pages 3 and 4 of the office action, at the locations as indicated by the examiner.